



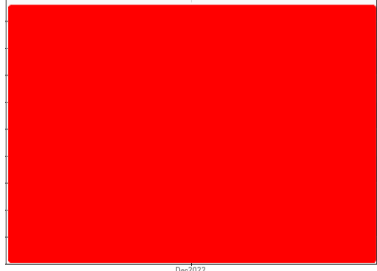
# PROBLEM SUMMARY

Sample Rating Trend

COMBUSTION

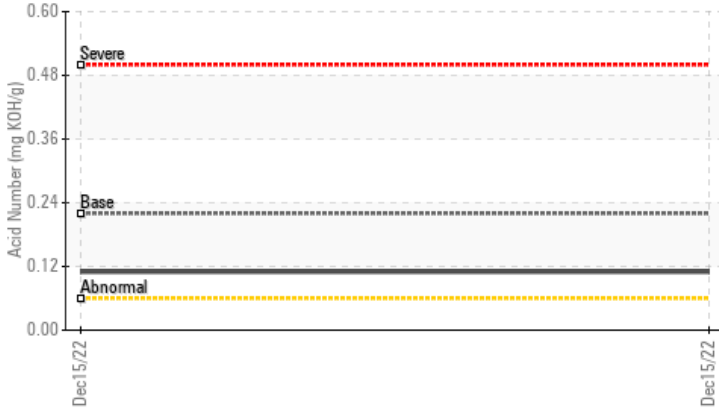


Area  
**CHAUDIERE GS5 [45292]**  
 Machine Id  
**PROLEC GE TN11605-T4C22 (S/N M16E15909)**  
 Component  
**Main Transformer Oil**  
 Fluid  
**ENVIROTEMP FR3 FLUID (1808 GAL)**



## COMPONENT CONDITION SUMMARY

### ▲ Acid Number



## RECOMMENDATION

We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
DGA - CO2	ppm	ASTM D3612(e)*		▲ 6607	---	---
DGA - Ethane	ppm	ASTM D3612(e)*		▲ 1067	---	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*		▲ 1148	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	0.22	▲ 0.11	---	---

Customer Id: ENE271OTT  
 Sample No.: WC0592374  
 Lab Number: 02531370  
 Test Package: TRF 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Bill Quesnel CLS, OMA II, MLA-III, LLA-I +1  
 (289)291-4641 x4641  
[Bill.Quesnel@wearcheck.com](mailto:Bill.Quesnel@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Breathers	---	---	?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.

## HISTORICAL DIAGNOSIS



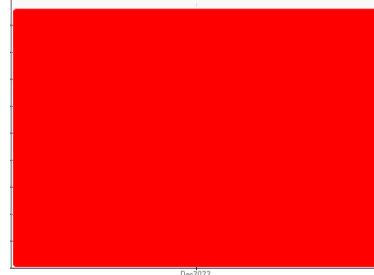
# OIL ANALYSIS REPORT

Sample Rating Trend

COMBUSTION



Area  
**CHAUDIERE GS5 [45292]**  
 Machine Id  
**PROLEC GE TN11605-T4C22 (S/N M16E15909)**  
 Component  
**Main Transformer Oil**  
 Fluid  
**ENVIROTEMP FR3 FLUID (1808 GAL)**



## DIAGNOSIS

### ▲ Recommendation

We recommend an early resample to monitor this condition.

### ▲ Contamination

Ethane level exceeded (>65, 0.0065%) indicating low energy arcing in a confined space. Carbon Dioxide levels exceeded (>2500, 0.25%). General conductor overheating indicated.

### ▲ Fluid Condition

The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0592374</b>	---	---
Sample Date	Client Info		<b>15 Dec 2022</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Water	%	ASTM D6304*	>0.02	<b>0.008</b>	---	---
ppm Water	ppm	ASTM D6304*	>200	<b>85.7</b>	---	---

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>1607</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>384</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>25</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>11</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>6</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>5</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	---	---

## DISSOLVED GAS ANALYSIS (DGA)

	method	limit/base	current	history1	history2
DGA - H2	ppm	ASTM D3612(e)*	<b>16</b>	---	---
DGA - O2	ppm	ASTM D3612(e)*	<b>219</b>	---	---
DGA - N2	ppm	ASTM D3612(e)*	<b>41176</b>	---	---
DGA - CO	ppm	ASTM D3612(e)*	<b>55</b>	---	---
DGA - CO2	ppm	ASTM D3612(e)*	<b>6607</b>	---	---
DGA - Methane	ppm	ASTM D3612(e)*	<b>4</b>	---	---
DGA - Acetylene	ppm	ASTM D3612(e)*	<b>0</b>	---	---
DGA - Ethylene	ppm	ASTM D3612(e)*	<b>6</b>	---	---
DGA - Ethane	ppm	ASTM D3612(e)*	<b>1067</b>	---	---
DGA - Total Gas Content	%	ASTM D3612(e)*	<b>49150</b>	---	---
DGA - Total Combustible Gas	ppm	ASTM D3612(e)*	<b>1148</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	0.22	<b>0.11</b>	---	---

## VISUAL

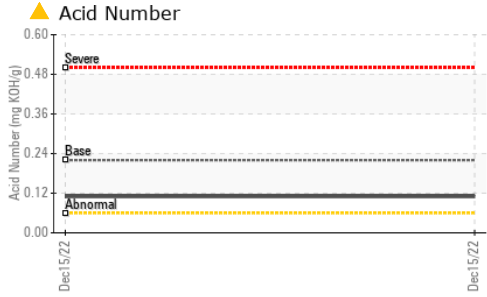
	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---

## FLUID PROPERTIES

	method	limit/base	current	history1	history2
Specific Gravity	ASTM D4052(e)	0.92	<b>0.920</b>	---	---
Dielectric Breakdown	kV	ASTM D3612(e)*	<b>52</b>	---	---
ASTM Color	scalar	ASTM D1500(e)	<b>&lt;1.5</b>	---	---

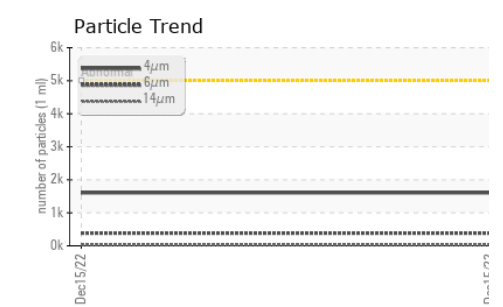
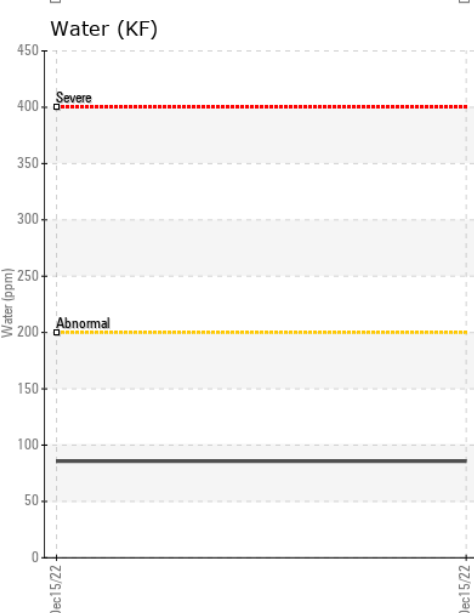
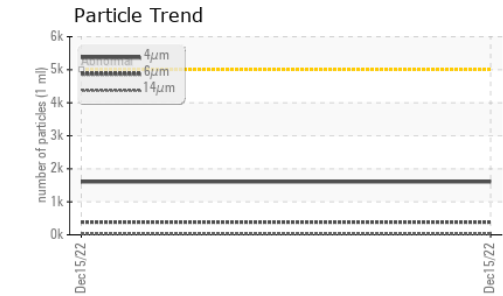
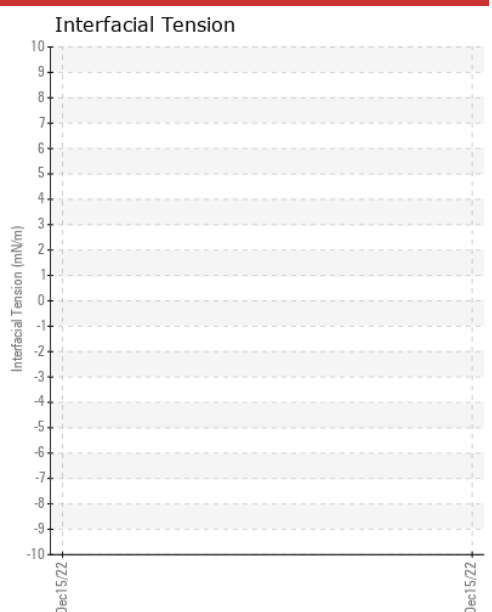
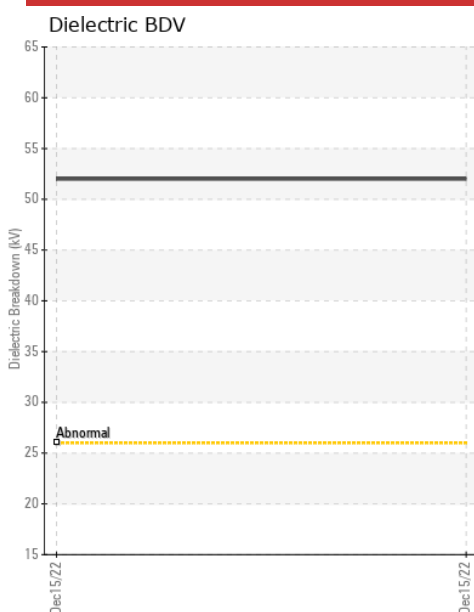
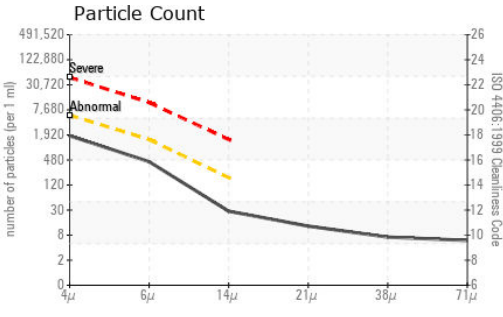


# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0592374 **Received** : 04 Jan 2023  
**Lab Number** : 02531370 **Tested** : 04 Jan 2023  
**Unique Number** : 5512369 **Diagnosed** : 19 Jan 2023 - Bill Quesnel  
**Test Package** : TRF 2 ( Additional Tests: PrtCount )

**Portage Power - Energy Ottawa**  
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 Contact: Cheryl Gharib  
 info@portagepower.com  
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 F: x:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.